



Syllabus of the compulsory discipline “Physical Rehabilitation and Sports Medicine”

1. General Information	
Faculty	Faculty of Foreign Students
Programme (industry, specialty, level of higher education, form of education)	22 Healthcare, 221 Dentistry, the second (master) level of higher education, full-time education
Academic year	2023/2024
Subject, code (e-mail address on the website of LNMU named after Danylo Halytsky)	Physical rehabilitation and Sports Medicine, EC 20.6, http://new.meduniv.lviv.ua/kafedry/kafedra-fizychnogo-vyhovannya-i-sportyvnoyi-medytsyny/
Department (name, address, phone, e-mail)	Department of Physical education and Sports medicine 79010, Lviv, 69 Pekarska, 5a Shimzeriv +380 (32) 276-78-03, kaf_sportmed@meduniv.lviv.ua
Head of the Department (e-mail)	Docent, c.b.s. Kunynets O.B. +380 (32) 276-78-03, kaf_sportmed@meduniv.lviv.ua
Year of study	3 year
Semester	6 semester
Type of the Subject/Module	obligatory
Teachers (names, surnames, scientific degrees and titles of teachers who teach the discipline, contact e-mail)	as. Marusiak S. V. (avrielle1803@gmail.com)
Erasmus yes / no (availability of the discipline for students within the Erasmus +)	No
Responsible for Syllabus	as. Marusiak S.V. (avrielle1803@gmail.com)
Credits ECTS	1 credit
Hours (lectures / practical classes / independent work of students)	4/10/16
Language of Instruction	English
Consultations	According to the schedule
2. Brief review of the subject	
Physical rehabilitation and sports medicine teaches to use effectively and in a timely manner the means of physical rehabilitation in the complex rehabilitation treatment of patients with dental profile; provides prevention of pre-pathological and pathological conditions that occur during the irrational use of exercise; teaches the use of individual recreational and health modes of physical activity for the prevention of occupational diseases in dentists.	
3. Aim of the Subject	
<p>1. The purpose of the discipline is to form students' holistic understanding of the possibilities, forms and methods of medical control in physical rehabilitation, understanding the importance of timely use of physical rehabilitation in the treatment and rehabilitation of dental patients, as well as in the prevention of occupational diseases by dentists.</p> <p>2. Goals follow from the aim and are determined by the content of theoretical knowledge, methodological training, practical skills and abilities that must be mastered by a specialist.</p> <ul style="list-style-type: none"> • define key concepts of physical rehabilitation and sports medicine as a clinical discipline. • be able to analyze and predict the impact of physical activity on the human body according to medical control and prescribe physical regimens and means of physical rehabilitation according to health, the nature of functional disorders of the dental system, functional abilities and exercise tolerance. • select and apply methods of physical rehabilitation in the complex treatment of dental patients for faster recovery, preservation of quality of life and prevention or elimination of the consequences of the pathological process. • be able to evaluate the effectiveness of physical rehabilitation. <p>General competencies:</p> <p>Ability to abstract thinking, analysis and synthesis.</p> <p>Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>Ability to apply knowledge in practice.</p> <p>Ability to communicate in the state language both orally and in writing.</p>	

Ability to communicate in English.
 Skills in the use of information and communication technologies.
 Ability to identify, pose and solve problems.
 Ability to work in a team.
 The desire to preserve the environment.
 The ability to act socially responsibly and consciously.
 Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies. active recreation and leading a healthy lifestyle.

Professional competencies:

Ability to collect medical information about the patient and analyze clinical data.
 Ability to interpret the results of laboratory and instrumental research.
 Ability to diagnose: determine the preliminary, clinical, final, concomitant diagnosis, emergencies.
 Ability to plan and implement measures for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial region.
 Ability to design the process of providing medical care: to determine the approaches, plan, types and principles of treatment of diseases of organs and tissues of the oral cavity and maxillofacial region.
 Ability to determine the rational mode of work, rest, diet in patients in the treatment of diseases of organs and tissues of the oral cavity and maxillofacial region.
 Ability to determine the tactics of management of patients with diseases of the organs and tissues of the oral cavity and maxillofacial region with concomitant somatic diseases.
 Ability to perform medical and dental manipulations.
 Ability to treat major diseases of organs and tissues of the oral cavity and maxillofacial region.
 Ability to organize and conduct medical and evacuation measures.
 Ability to determine tactics, methods and provide emergency medical care.
 Ability to organize and conduct screening examinations in dentistry.
 Ability to assess the impact of the environment on the health of the population (individual, family, population).
 Processing of state, social and medical information.
 Ability to organize and conduct rehabilitation measures and care for patients with diseases of the oral cavity and maxillofacial area.
 Ability to provide legal support for one's own professional activity.
 Ability to provide home care according to the protocols of tactical medicine.

4. Course details

To successfully learn and master key competencies in the discipline "Physical Rehabilitation and Sports Medicine" requires basic knowledge of such disciplines as human anatomy, physiology, pathophysiology, propaedeutics of internal medicine, propaedeutics of orthopedic dentistry, physical education to the extent necessary for understanding and mastering the mentioned disciplines.

5. Results of the Course

Results

Code	Results	Matrix of competencies
The code is created when filling the syllabus (category: Kn- knowledge, Mind-Skills, C- competence, AR - autonomy and responsibility)	Learning outcomes determine that the student must know, understand and be able to perform, after completing the discipline. Learning outcomes follow from the set learning goals. To enroll in the discipline, it is necessary to confirm the achievement of each learning outcome.	Symbol of the Program Program Result Code in the Higher Education Standard
Kn-1	Knowledge and understanding of the subject area and understanding of professional activity	PR-1, PR-2, PR-21
Kn-2	Knowledge of the technique of performing basic motor skills and abilities	PR-3, PR-21, PR-22, PR-23
Kn-3	Knowledge of the types of reactions of the body	PR-15, PR-16

Kn-4	to exercise Knowledge of the main tasks, forms and features of medical control during exercise	PR-3
Kn-5	Knowledge of exercise therapy methods and mechanisms of therapeutic action of physical exercises.	PR-17
Kn-6	Knowledge of the basics methods of rehabilitation and physical improvement by traditional and non-traditional means and methods of physical culture.	PR-17
Kn-7	Knowledge of modern research methods and methods of their implementation in specialized activities of athletes.	PR-3, PR-8
S-1	Be able to study and evaluate physical development, functional abilities of the body and human health.	PR-3
S-2	Be able to diagnose the degree of functional disorders of the dental and maxillofacial system in patients with dental profile.	PR-4, PR-5
S-3	Be able to analyze survey data and form a medical opinion.	PR-18
S-4	Be able to determine the purpose, objectives, basic tools and methodological principles of physical rehabilitation.	PR-3, PR-4, PR-8 PR-20
S-5	Be able to choose the optimal mode of motor activity for patients with dental profile depending on the stage and period of physical rehabilitation, as well as taking into account exercise tolerance.	PR-8, PR-9, PR-10
S-6	Be able to prescribe FR taking into account the individual characteristics of the body, the clinical course of the disease and functional disorders of the dental and maxillofacial system in patients with dental profile.	PR-8, PR-9, PR-10, PR-11, PR-21,
S-7	Be able to choose the means of FR and apply the optimal methods of exercise therapy in purulent-inflammatory processes in the maxillofacial area, open and closed fractures of the jaws, taking into account the method of fixation of fragments, traumaticinjuries, incl. burns, soft tissues of the maxillofacial area, contractures of the temporomandibular joints, neuritis of the facial or trigeminal nerves, reconstructive surgery for injuries of soft and bone tissues of the facial skeleton, removal of tumors, nonunion of the upper lip and palate ., with anomalies in the development of occlusion, functional disorders and congenital malformations of the dental and maxillofacial system in children.	PR-22, PR-23
S-8	Be able to apply the means of FR, taking into account the individual characteristics of the body in order to prevent occupational diseases of dentists.	PR-6, PR-7, PR-12, PR-14, PR-21, PR-23
C-1	Establish interpersonal relationships to effectively perform tasks and responsibilities	PR-14, PR-19
C-2	Present the results of scientific research in writing	PR-14

	(in the form of abstracts, scientific publications, etc.) and orally (in the form of reports, presentations).			
AR-1	Independently plan and conduct research	PR-14,PR-19		
AR-2	Take personal responsibility for the results of your own professional activities	PR-19		
AR-3	Adhere to generally accepted norms of behavior and morality in interpersonal relationships	PR-19		
6. Format and scope of course				
<i>Course format (specify full-time or part-time)</i>	Full-time			
Kind of classes	Number of hours	Number of groups		
Lectures	4 hours			
practic	10 hours			
Seminars	-			
independent work	16 hours			
7. Topics and content of the course				
Code Kind of classes	Topic	Learning content	Learning outcome code	Teacher
L-1	Comprehensive medical examination during exercise. Research and evaluation of human physical development. Research and assessment of the functional state of the organism. Medical opinion.	Physical rehabilitation and sports medicine in the historical aspect. Modern ideas about physical rehabilitation and sports medicine, and their importance in the health care system. The effect of physical activity of varying intensity on the human body. Purpose, tasks and content of medical control during exercise. Comprehensive methods of medical examination of persons engaged in physical exercises. Human physical development and factors that determine it. The concept of functional tests. The main tasks of functional research. General requirements for conducting functional tests.	Kn-1, Kn-2, Kn-3, Kn-4, S-1, S-2, S-3, S-4, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.
L-2	General bases of application of means of physical rehabilitation at patients of a dental profile. Features of therapeutic massage in dentistry.	General concepts of rehabilitation and its main directions. Physical rehabilitation (FR) as one of the areas of rehabilitation treatment. General principles, stages and means of FR. Therapeutic physical culture (TP) as the main means of FR. Features of the method and means of exercise therapy. Forms, methods, periods and methodological principles of	Kn-5, Kn-6, Kn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, K-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.

		<p>exercise therapy. Mechanisms of therapeutic action of physical exercises.</p> <p>Classification of physical exercises. Indications and contraindications to the appointment of FR. Evaluation of the effectiveness of the procedure and the course of physical rehabilitation.</p> <p>Theoretical foundations of therapeutic massage. The effect of massage on the human body, types of massage. Basic and additional massage techniques. Indications and contraindications to the use of massage in dentistry.</p> <p>The use of therapeutic massage of the maxillofacial area in combination with special exercises of therapeutic gymnastics (TG) for patients with dental profile. Evaluation of the effectiveness of the massage course.</p>		
P-1	<p>Comprehensive medical examination during exercise. Research and evaluation of human physical development. Research and assessment of the functional state of the organism. Medical opinion. International classification of functioning, limitations of vital activity and health.</p>	<p>Physical rehabilitation and sports medicine in the historical aspect.</p> <p>Modern ideas about physical rehabilitation and sports medicine, and their importance in the health care system. The effect of physical activity of varying intensity on the human body.</p> <p>Comprehensive methods of medical examination of persons engaged in physical exercises. Human physical development and factors that determine it.</p> <p>The concept of functional tests. The main tasks of functional research. General requirements for conducting functional tests. Classification of functional tests. Types of reaction of the circulatory system to functional tests with physical activity.</p> <p>Analysis of the results of a comprehensive medical examination. Medical opinion.</p> <p>The concept of tolerance to physical activity.</p>	<p>Kn-1, Kn-2, Kn-3, Kn-4, S-1, S-2, S-3, S-4, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.</p>	<p>as. Marusiak S.V.</p>

		Pre-pathological and pathological conditions that occur during inadequate physical activity, means of their prevention and emergency care.		
P-2	General basics use of means of physical rehabilitation in dental patients profile. Application physical means rehabilitation with purpose prevention and corrections professional diseases in doctors-dentists	General concepts about rehabilitation and its basics directions Physical rehabilitation (PR) as one of the directions restorative treatment. general principles, stages and means of the FR. Therapeutic physical culture (exercise) as the main means of FR. Features of the method and means of exercise therapy. Forms, methods, periods and methodical principles of exercise therapy. Mechanisms therapeutic action physical exercises. Classification of physical exercises. Clinico-physiological justification of the use of FR means for the prevention and treatment of occupational diseases dentist. Special exercises for the prevention and treatment of occupational pathology in dentists: diseases of the musculoskeletal system; varicose veins of the lower extremities, visual strain; diseases of the circulatory system, respiratory system and other pathologies.	Kn-1, Kn-2, Kn-4, Kn-5, Kn-6, Kn-7 S-1,S-2, S-3, S-4, S-5, S-6, S-7, S-8 C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.

P-3	Physical rehabilitation for purulent-inflammatory processes in the maxillofacial area. Physical rehabilitation for fractures of the jaws and bones of the facial skeleton.	Clinico-physiological justification of the use of FR means in periodontal diseases, purulent-inflammatory processes of the maxillofacial area. Indications and contraindications to the appointment of FR means. Basic methodical approaches and peculiarities of exercise therapy in periodontosis, periodontopathies, surgical treatment of purulent-inflammatory processes (abscesses, phlegmon) of the maxillofacial area. Clinico-physiological justification of the use of FR means for injuries of the maxillofacial area: fractures of the jaws and bones of the facial skeleton. Periods of exercise therapy, their tasks. Modes of motor activity of patients at the stages of FR. Peculiarities of using mechanotherapy and massage.	Kn-3, Kn-4, Kn-5, Kn-6, S-2, S-3, S-5, S-6, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.
-----	--	---	---	-------------------

P-4	<p>Physical rehabilitation for diseases and contractures of the temporomandibular joints. Physical rehabilitation for neuritis of the facial and trigeminal nerves.</p>	<p>Clinico-physiological justification of the use of FR means in diseases and contractures of the temporomandibular joints. Indications and contraindications for exercise therapy. Periods of exercise therapy, their tasks. Clinico-physiological justification of the use of FR means for neuritis of the facial and trigeminal nerves. Indications and contraindications for exercise therapy. Basic approaches and peculiarities of the technique of physical therapy for functional disorders of the maxillofacial system caused by neuritis of the facial or trigeminal nerves. Assessment of efficiency of use funds of the FR.</p>	Kn-2, Kn-4, Kn-5, Kn-6, S-2, S-3, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.
P-5	<p>Physical rehabilitation during reconstructive and plastic surgeries in the maxillofacial area. Physical rehabilitation for congenital anomalies jaw development and bite disorders in children.</p>	<p>Clinico-physiological justification of the use of FR means during reconstructive and plastic operations on the maxillofacial area. Indications and contraindications for prescribing exercise therapy. Basic methodological approaches and peculiarities of exercise therapy during reconstructive and plastic surgery on the maxillofacial area due to scar changes after soft tissue injuries, burns, removal of neoplasms. Periods of exercise therapy, their tasks. Modes of motor activity of patients at the stages of FR. Evaluation of the effectiveness of the use of funds of the FR.</p>	Kn-4, Kn-5, Kn-6, S-2, S-3, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.

		<p>Clinico-physiological justification of the use of FR means for congenital anomalies of development and occlusion disorders in children. The main methodical approaches and peculiarities of exercise therapy during reconstructive surgeries for non-union of the lip, hard and soft palate, functional disorders and anomalies of bite development in children. Assessment of efficiency of use funds of the FR.</p>		
ISW-1	<p>Registration of exercise therapy appointments in the medical documentation. Writing a medical control card (form No. 061/o) and a card of a patient being treated in the department of surgical dentistry, in an exercise therapy office or a rehabilitation center (form No. 42/o). Formation of practical skills.</p>	<p>Acquaintance and filling in of the main types of medical control cards used in work in the process of medical control of healthy persons and rehabilitation of patients. Formation of practical skills.</p>	<p>Kn-1, Kn-2, Kn-3, Kn-4, Kn-5, Kn-6, Kn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.</p>	<p>as. Marusiak S.V.</p>
ISW-2	<p>Research and assessment of the state of the dental and jaw system. Peculiarities of the use of therapeutic massage in dentistry.</p>	<p>The study of anatomophysiological features of the temporomandibular joints and muscles located in the maxillofacial region (mimic, masticatory, tongue, palatopharyngeal ring muscles, neck). Scheme of examination of the functional state of tissues of the maxillofacial area. Diagnostic physical exercises and test complexes for detecting the degree of functional disorders of the dento-maxillofacial system. Functional diagnosis of the state of the maxillofacial system using special chewing samples and instrumental methods.</p>	<p>Kn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.</p>	<p>as. Marusiak S.V.</p>

		Indications and contraindications for the use of massage in dentistry. Evaluation of the effectiveness of the course massage.		
ISW-3	Peculiarities of physical rehabilitation for burns and injuries of soft tissues of the maxillofacial area.	Methods of examination of the general condition of the victim in case of soft tissue injuries of the maxillofacial area. Justification of the feasibility of using physical rehabilitation tools for burns and injuries of soft tissues of the maxillofacial area.	Kn-4, Kn-5, Kn-6, S-2, S-3, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.
ISW-4	Tasks of therapeutic physical education in disorders of the function of the facial nerve that arose as a result of surgical treatment in maxillofacial region.	Peculiarities of physical rehabilitation for neuritis of the facial nerve, which arose as a result of surgical treatment in the maxillofacial region. Study of indications and contraindications for the use of special exercises in different stages of recovery treatment.	Kn-2, Kn-4, Kn-5, Kn-6, S-2, S-3, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.
ISW-5	Sound gymnastics and special exercises that have a targeted effect on functionally impaired systems in children with congenital malformations upper lip and hard and soft palate.	Peculiarities of physical rehabilitation for congenital anomalies and functional disorders of the dento-maxillofacial system in children, such as malunion upper lip and hard and soft palate. Methods of special exercises and features of sound gymnastics.	Kn-4, Kn-5, Kn-6, S-2, S-3, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V.

8. Verification of learning outcomes

***Current control** is carried out during the training sessions and aims to check the assimilation of students' educational material (it is necessary to describe the forms of current control during the training sessions). Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final grade for the current educational activity is set on a 4-point (national) scale.*

Evaluation criteria.

Students receive credit after completing the teaching of the discipline in the 3rd year of study, in the 6th semester, who have fully met the requirements of the curriculum. Student performance is assessed on a traditional 4-point scale. The subject "Physical Rehabilitation and Sports Medicine" for students is carried out in practical classes, lectures and in the form of independent work of students (ISW). Classes are conducted by a teacher of physical rehabilitation and sports medicine according to the curriculum.

Final control

General evaluation system	Participation in the work during the semester / exam - 60% / 40% on a 200-point scale	
Rating scales	traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale	
Conditions of admission to the final control	The student attended all practical classes and received at least 120 points for current performance	
Type of final control	Methods of final control	Enrollment criteria
Credit	All topics submitted for current control must be included. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of student learning activities"	The maximum number of points is 200. The minimum number of points is 120

The calculation of the number of points is based on the grades obtained by the student on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows

$$x = \frac{CA \times 120}{5}$$

**For convenience, a table of recalculation on a 200-point scale is given
Recalculation of the average score for current activities in a multi-point scale for
disciplines that end with a test.**

4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale
5	200	4.45	178	3.92	157		
4.97	199	4.42	177	3.89	156		
4.95	198	4.4	176	3.87	155	3.37	135
4.92	197	4.37	175	3.84	154	3.35	134
4.9	196	4.35	174	3.82	153	3.32	133
4.87	195	4.32	173	3.79	152	3.3	132
4.85	194	4.3	172	3.77	151	3.27	131
4.82	193	4.27	171	3.74	150	3.25	130
4.8	192	4.24	170	3.72	149	3.22	129
4.77	191	4.22	169	3.7	148	3.2	128
4.75	190	4.19	168	3.67	147	3.17	127
4.72	189	4.17	167	3.65	146	3.15	126
4.7	188	4.14	166	3.62	145	3.12	125
4.67	187	4.12	165	3.6	144	3.1	124
4.65	186	4.09	164	3.57	143	3.07	123
4.62	185	4.07	163	3.55	142	3.02	121
4.6	184	4.04	162	3.52	141	3	120
4.57	183	4.02	161	3.5	140		
4.52	181	3.99	160	3.47	139		
4.5	180	3.97	159	3.45	138	less	Not enough
4.47	179	3.94	158	3.42	137	3	
				3.4	136		

Ranking with the assignment of grades "A", "B", "C", "D", "E" is carried out for students of the course who study in one specialty and have successfully completed the study of the discipline. Students who receive grades FX, F ("2") are not included in the list of ranked students. Students with FX grade automatically receive an E score after retaking.

Mark ECTS	Statistical indicator
A	The best 10 % students
B	Next 25 % students
C	Next 30 % students
D	Next 25 % students
E	The last 10 % students

9. Course policy

Indicates academic integrity policies, program-specific policies relevant to the course Academic Integrity: Students' work is expected to be their original research or reasoning. Lack references to sources used, fabrication of sources, copying, interference in the work of other students, but are not limited, examples of possible academic dishonesty. Identifying signs of academic dishonesty in the student's work is the basis for its non-enrollment by the teacher, regardless of the extent of plagiarism or deception. Sources of training: the source base can be provided by the teacher exclusively for educational purposes without the right to transfer it third party. Students are encouraged to use other literature that is not on the recommended list.

10. Literature

Literature

Basic:

1. Osnovy reabilitatsii, fizychnoi terapii, erhoterapii: pidruchnyk /[L.O.Vakulenko, V.V.Klapchuk, D.V. Vakulenko, ta in.]; za zah. red. L.O Vakulenko, VV Klapchuka. – Ternopil

2. Likuvalna fizykultura ta sportyvna medytsyna: Testovi zavdannia dlia kontroliu znan studentiv medychnoho ta stomatolohichnoho fakultetiv vyshchych medychnykh navchalnykh zakladiv IV rivniv akredytatsii (Navchalnyi posibnyk) / Abramov V.V., Klapchuk V.V., Mahlovanyi A.V., Smyrnova O.L., ta in.; za red. prof. V.V. Klapchuka ta prof. A.V. Mahlovanoho. – Dnipropetrovsk: Med. akademiia, 2006. – 124 s.

3. Sportyvna medytsyna: Pidruchnyk dlia studentiv ta likariv / Za zahalnoi redaktsiieiu prof. V.M. Sokruta – Donetsk: «Kashtan», 2013. – 472 s.

4. Mykhaliuk Ye.L., Malakhova S.M., Cherepok O.O., Smyrnova O.L. Fizychna rehabilitatsiia ta sportyvna medytsyna v stomatolohii: Navchalnyi posibnyk dlia studentiv vyshchych navchalnykh zakladiv / Ye.L. Mykhaliuk, S.M. Malakhova, O.O. Cherepok, O.L. Smyrnova. – Zaporizhzhia: ZDMU, 2012. – 179 s.

5. Romanyshyn M.Ia. Fizychna rehabilitatsiia v sporti: Navchalnyi posibnyk. – Rivne: «Volynski oberehy», 2007. – 368 s.

6. Fizychna rehabilitatsiia, sportyvna medytsyna : Pidruchnyk dlia studentiv vyshchych medychnykh navchalnykh zakladiv / V. V. Abramov, V. V. Klapchuk, O. B. Nekhanevych A.V. Mahlovanyi [ta in.] ; za red. prof. V. V. Abramova ta dots. O. L. Smyrnovoi. – Dnipropetrovsk, Zhurfond, 2014. – 456 s.

7. Fizychna rehabilitatsiia v stomatolohii: Navchalnyi posibnyk dlia studentiv vyshchych navchalnykh zakladiv / V. A. Shapovalova, V. M. Korshak, V. M. Khaltaharova [ta in.]. – Kyiv : Medytsyna, 2008. – 96 s.

8. Osnovy fizychnoi rehabilitatsii / Mahlovanyi A.V., V.M. Mukhin, H.M. Mahlovana // Navchalnyi posibnyk, Lviv, 2006, 148 S.

Additional:

1. Likuvalna fizykultura ta sportyvna medytsyna (Vybrani leksii dlia studentiv) / Abramov V.V., Klapchuk V.V., Smyrnova O.L. ta in.; za red. prof. V.V. Klapchuka. – Dnipropetrovsk: Med. akademiia, 2006. – 179 s.

2. Mykhaliuk Ye.L. Hranychni ta patolohichni stany pry zaniattiakh fizychnoiu kulturoiu i sportom / Ye.L. Mykhaliuk. – Navchalnyi posibnyk dlia studentiv vyshchych navchalnykh zakladiv. – Zaporizhzhia: ZDMU, 2010. -113 s.

3. Mukhin V.M. Fizychna rehabilitatsiia / Mukhin V.M. – K.: Olimpiiska literatura, 2005. – 248 s.

4. Mukhin V.M. Fizychna rehabilitatsiia / Mukhin V.M. – K.: Olimpiiska literatura, 2010. – 486 s.

5. Osnovy rehabilitatsii, fizioterapii, likuvalnoi fizychnoi kultury i masazhu / Za red. V.V. Klapchuka, O.S. Polianskoi. – Chernivtsi: Prut, 2006. – 208 s.

6. Osnovni poniattia y terminy zdoroviazberezhennia ta fizychnoi rehabilitatsii v systemi osvity: Navchalnyi posibnyk dlia studentiv vyshchych navchalnykh zakladiv / O.D. Dubohai, A.I. Aloshyna, V.Ie. Lavryniuk. – Luts'k: Volynskiy natsionalnyi universytet im. Lesi Ukrainky, 2011. – 296 s.

7. Sanolohiia (medychni aspekty valeolohii) [Tekst] : pidruch. dlia likariv-slukhachiv zakl. (f-tiv) pisliadyplom. osvity vyshch. navch. med. zakl. Ukrainy III-IV rivniv akredytatsii / Apanasenko H. L., Popova L. A., Mahlovanyi A. V. - K. ; L. : Kwart, 2011. - 302 s. : tabl., rys. - Bibliohr.: s. 298-302.

8. Mahlovanyy A. Physical rehabilitation and thermoregulatory processes in athletea with disabilities // T. Prystupa, R. Rudenko, A. Mahlovanyy, O. Shuyan / Journal of Physical Education and Sport @. - 2015. - P. 730-735

9. MAHLOVANYI, VOLODYMYR TRACH // Journal of Physical Education and Sport DOI:10.7752/jpes.2021.05350 Published online: September 30, 2021 (Accepted for publication September 15, 2021) (JPES), Vol. 21 (5), Art 350, pp. 2622 - 2632, September 2021 online ISSN: 2247 - 806X; p-ISSN: 2247 - 8051; ISSN - L = 2247 - 8051 © JPES

10. Foundations of the physical rehabilitation in medicine / Anatoliiy Mahlovanyy, Olha Kuninets, Igor Grygus // Fizychna terapiia, zdorovia, fizychna kultura ta pedahohika : monohrafiia . Fizjoterapia, zdrowie, kultura fizyczna i pedagogika : monografia. – Rivne : NUVHP, 2021. – S. 147 – 175

11. Mahlovanyi A.V. Chastota travmy holovy ta oblychchia zalezno vid vydu sportu, mekhanizm ta profilaktyka / Ye. N. Prystupa, A. V. Mahlovanyi, D. S. Avetikov, V. V. Pankevych, S. V. Ushtan // Klinichna khirurgiia. - 2017. - № 10. - S. 70–73.

Informational resources

- zakon.rada.gov.ua/go/1556-18
- <http://www.kmu.gov.ua/control/uk/cardnpd?docid=248719473>
- <http://www.kmu.gov.ua/control/uk/cardnpd?docid=248719427>
- dsmsu.gov.ua/index/ua/material/16894
- sportbuk.com/.../proekt-novoho-zakonu-ukraji...
- <http://uareferat.com>
- <http://www.lnu.edu.ua/faculty/sport/img>
- mdu.edu.ua/spaw2/uploads/files/19_4.pd
- elibrary.kubg.edu.ua/.../Lyashenko_Tumanova
- www.sworld.com.ua/index.php/ru/pedagogy.../18194-213-923
- <http://lp.edu.ua/node/1347>
- zakon.rada.gov.ua/laws/show/z0249-06
- ua.textreferat.com/referat-664.html
- www.ukrreferat.com/index.php?referat=61901
- elartu.tntu.edu.ua/handle/123456789/883
- [nbuv.gov.ua/.../VchdpuPN_2013_112\(1\)_24](http://nbuv.gov.ua/.../VchdpuPN_2013_112(1)_24)
- [studme.com.ua/.../programmno-normativnye o...](http://studme.com.ua/.../programmno-normativnye_o...)

11. Equipment, logistics and software of the discipline / course

Textbooks, manuals, methodical recommendations, tests of current control, dynamometers, spirometers, centimeter tapes, scales, height meters, stopwatches.

12. Additional information

All other information important for the student, which is not included in the standard description, for example, contact details of the person responsible for the educational process at the department, information about the scientific circle of the department, information about routes, information about the need to equip themselves with occupational safety; information about the place of classes; links to website / department pages, etc.

Syllabus stacker
As.Marusiak S.V.



(Sign)

The head of the department
Docent, c.b.s. Kunynets O.B.



(Sign)